

1/14

$$E = R^{-6}/(R^{-6} + R_0^{-6})$$

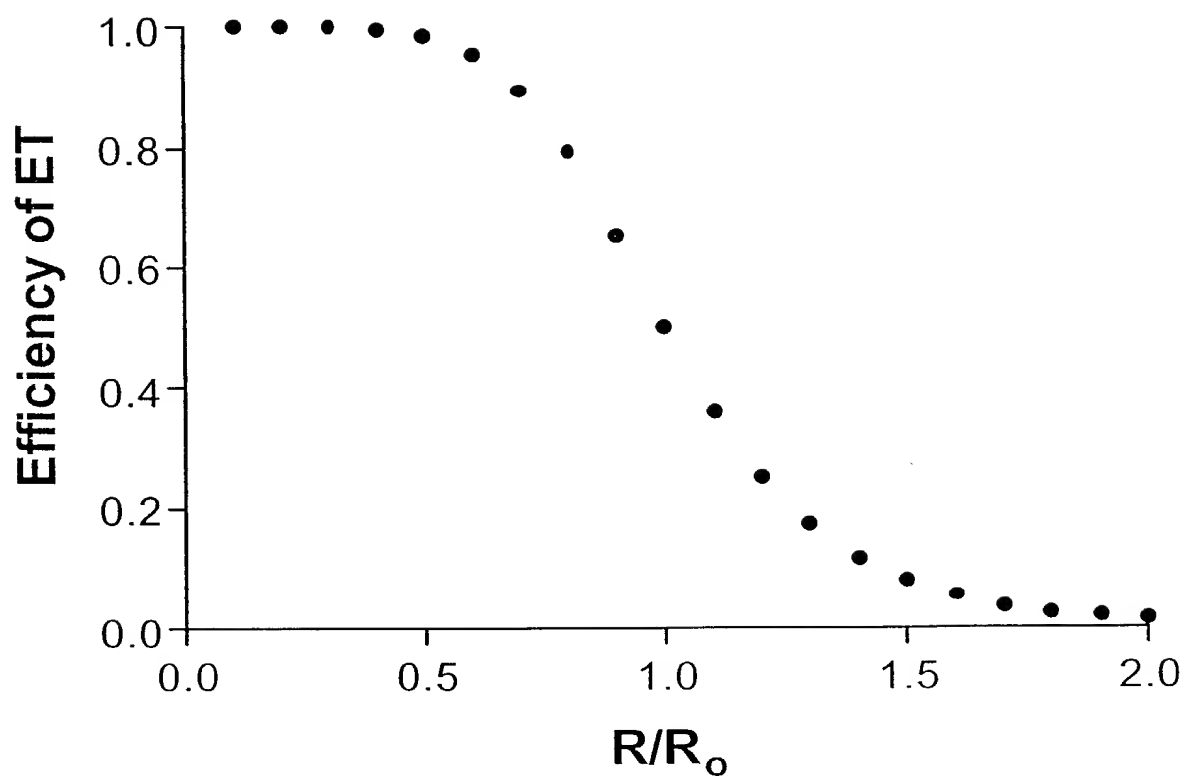


FIG. 1

2/14

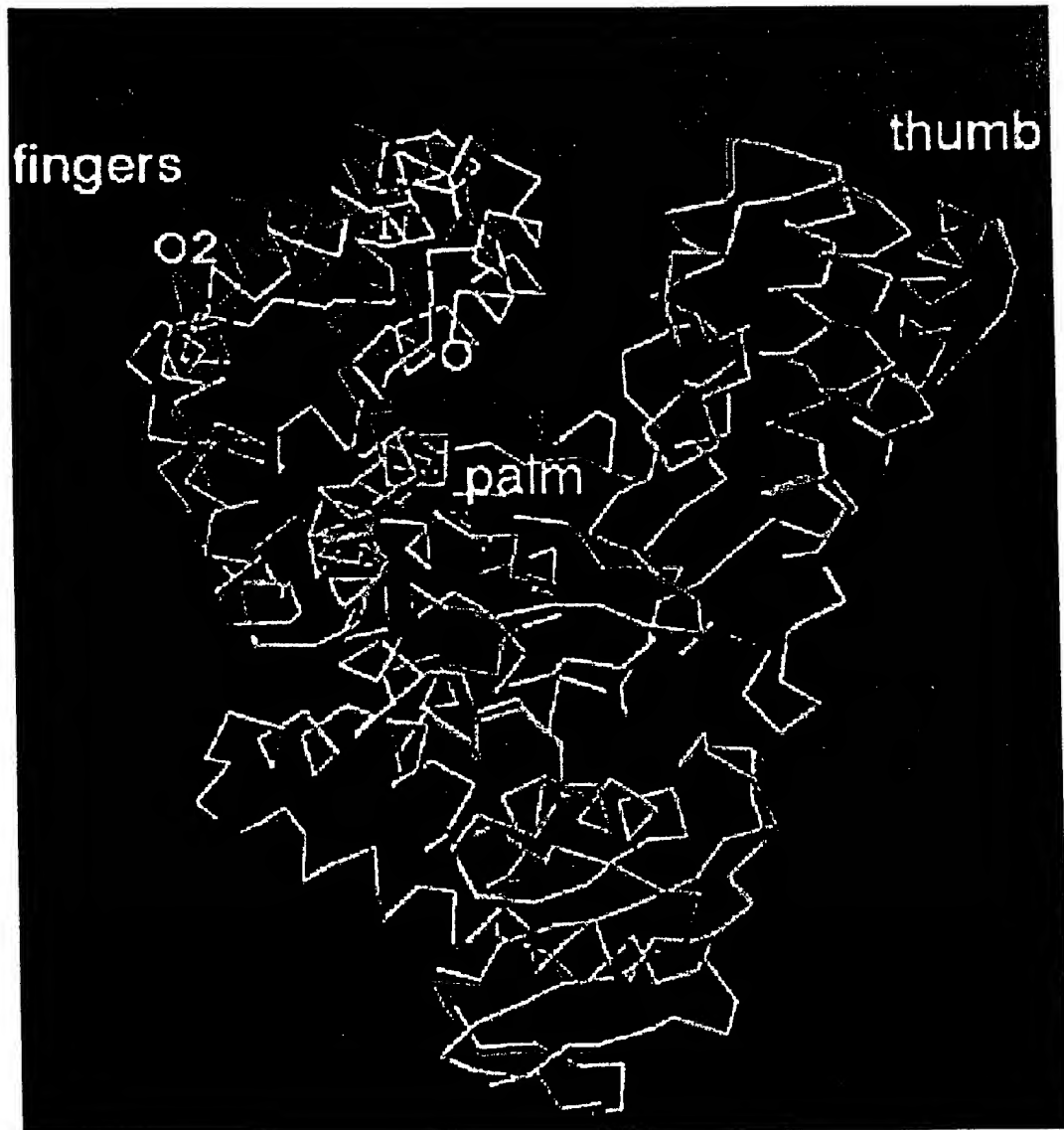


FIG. 2

3/14



FIG. 3A

4/14

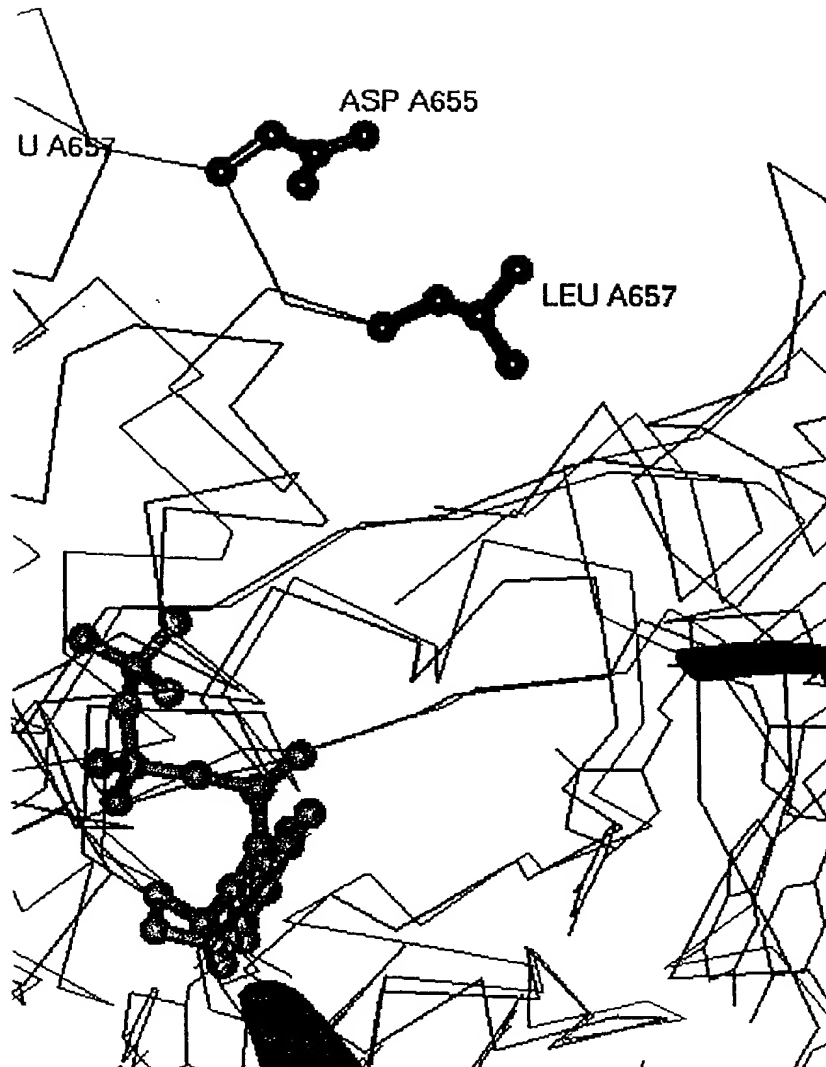


FIG. 3B

5/14

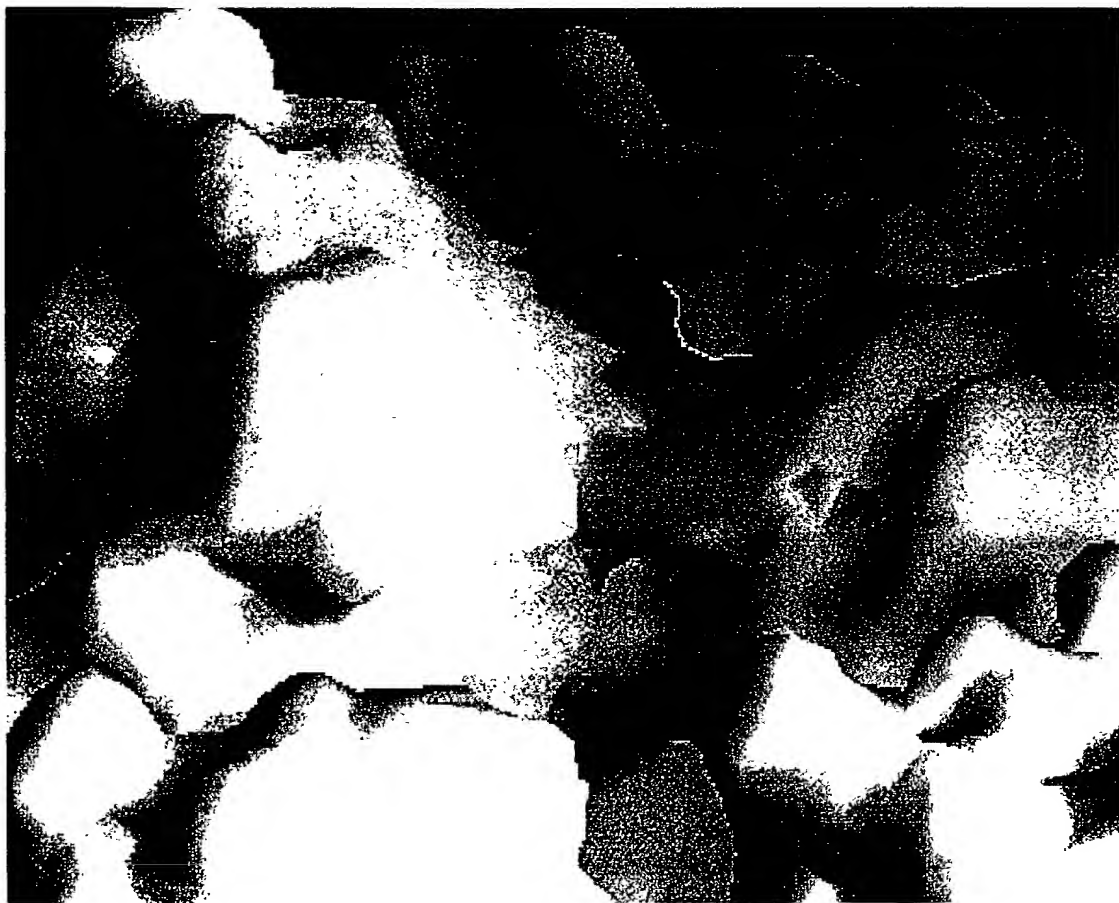


FIG. 3C

6/14

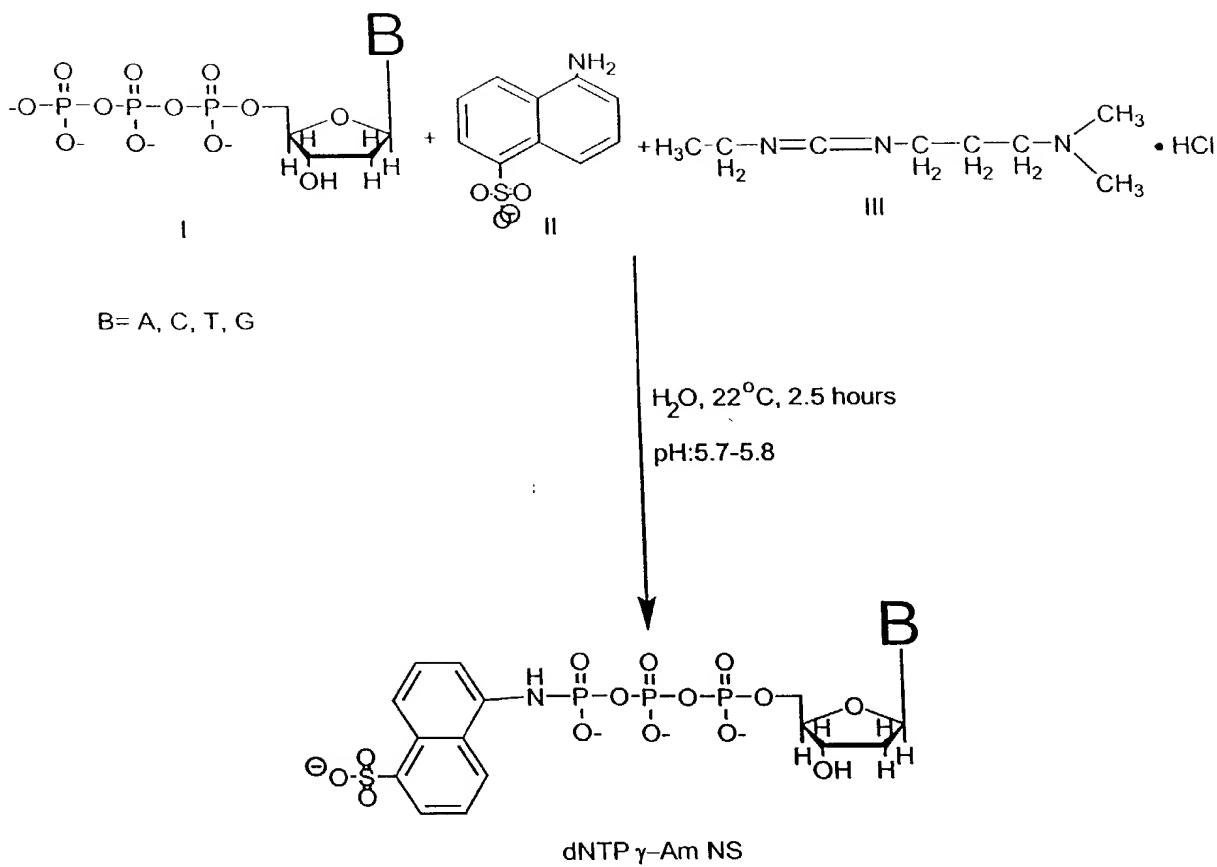


FIG. 4

7/14

Primer Strand:		
TOP 5'	GGT ACT AAG CGG CCG CAT G	3'
Template Strands:		
BOT-T 3'	CCA TGA TTC GCC GGC GTA CTC	5'
BOT-C 3'	CCA TGA TTC GCC GGC GTA CCC	5'
BOT-G 3'	CCA TGA TTC GCC GGC GTA CGC	5'
BOT-A 3'	CCA TGA TTC GCC GGC GTA CAC	5'
BOT-3T 3'	CCA TGA TTC GCC GGC GTA CTT TC	5'
BOT-Sau 3'	CCA TGA TTC GCC GGC GTA CCT AG	5'

Incorporate: GATC AG AAAG
(5' to 3')

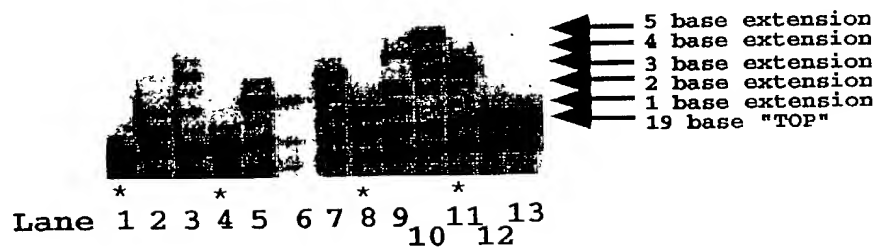


FIG. 5

8/14

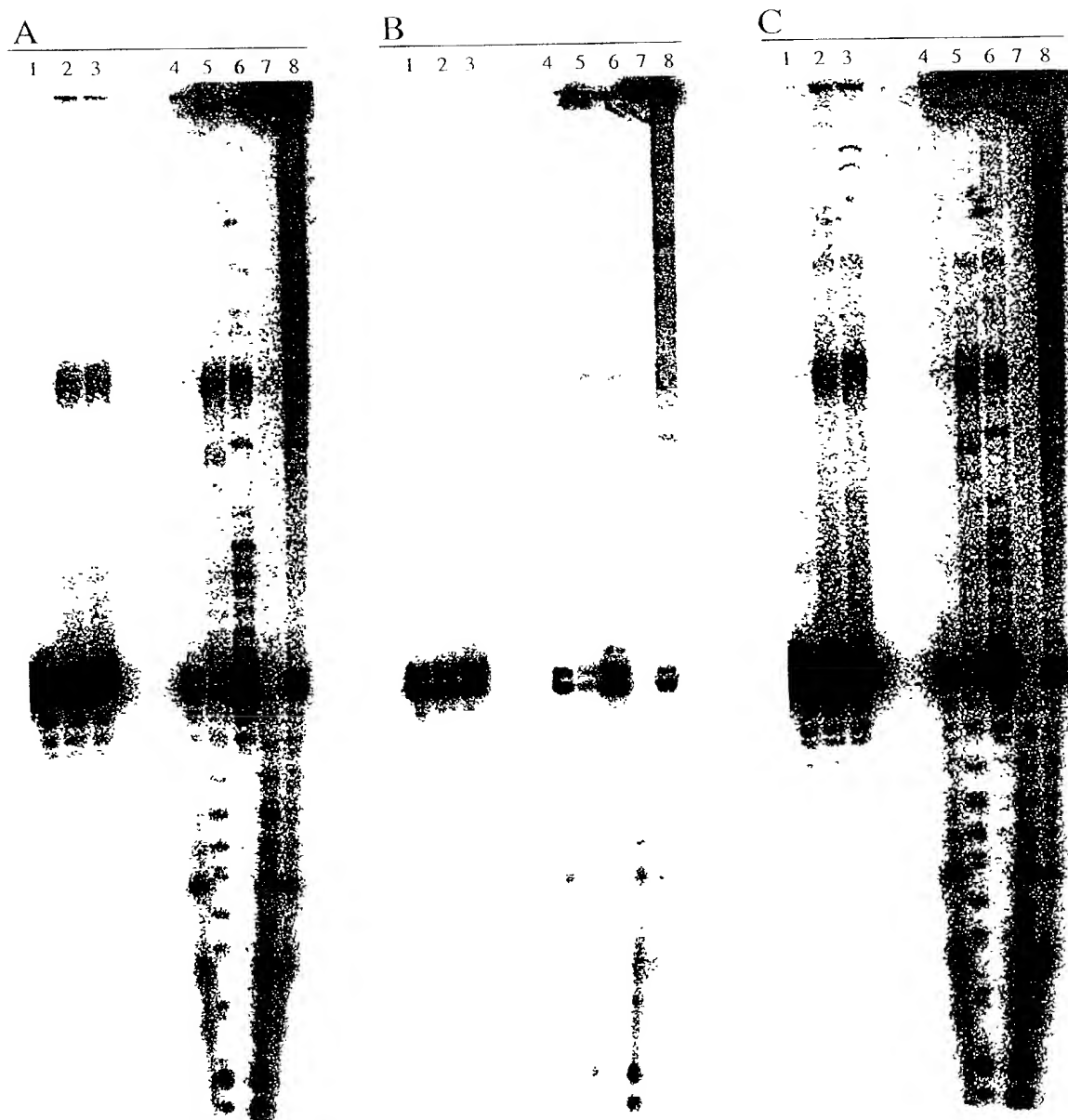
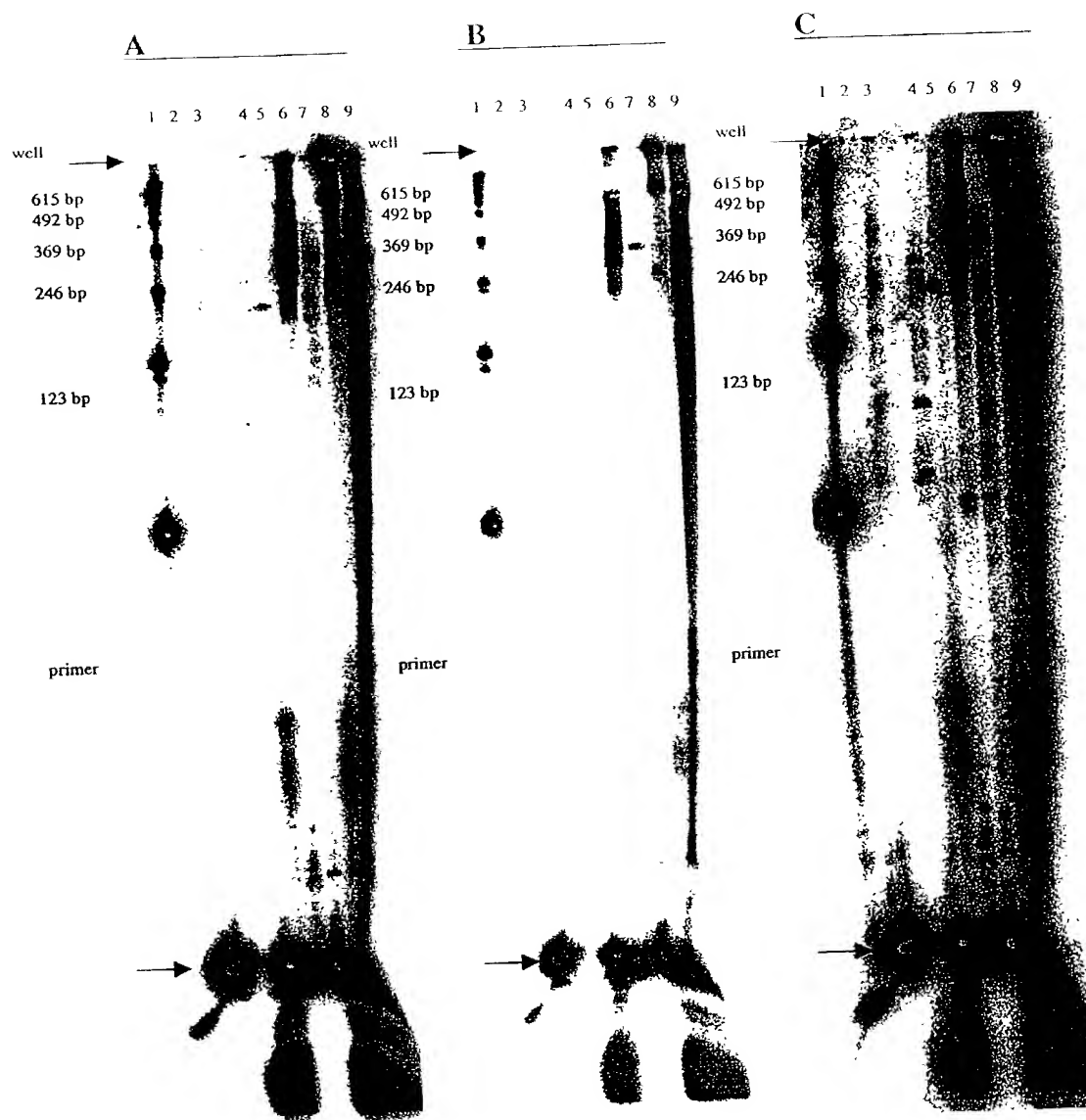


FIG. 6

9/14



10/14

		Klenow								Taq	
Enzyme	-	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT - 3T</u>			<u>BOT - T</u>			<u>BOT - Sau</u>		<u>BOT - 3T</u>	
Nucleotide	-	dG	dA	γ A	dG	dA	γ A	dG	dA	γ A	dA γ A

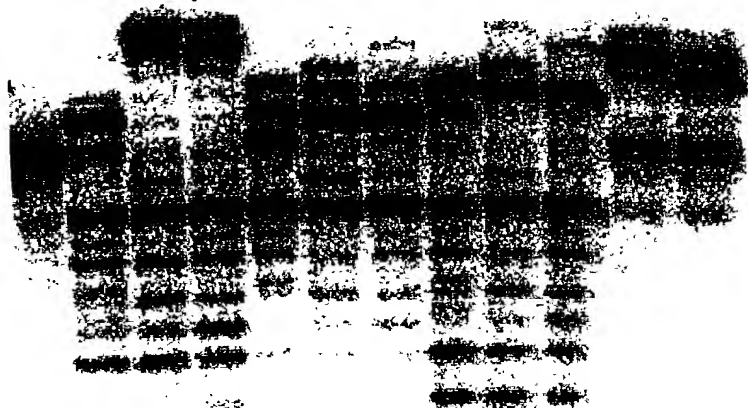


FIG. 8

11/14

Pfu Primer Extension Assays

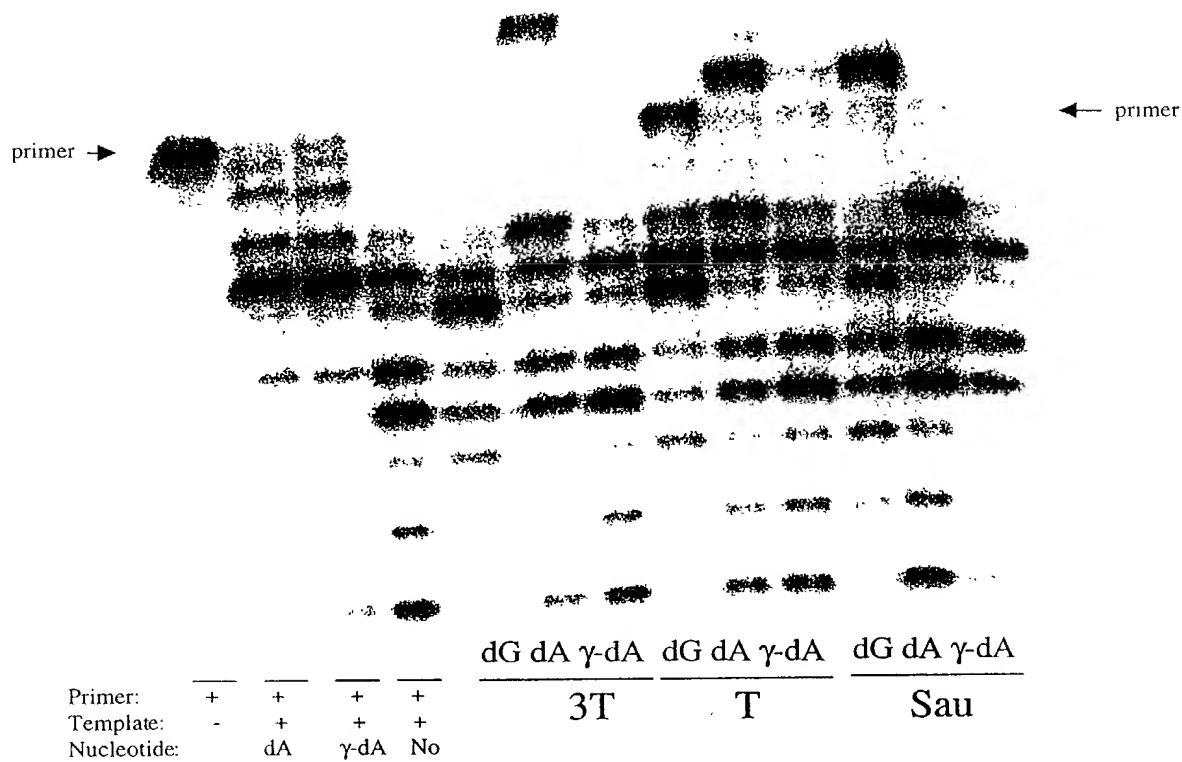


FIG. 9

12/14

- Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

- Template Strands:

3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'

Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

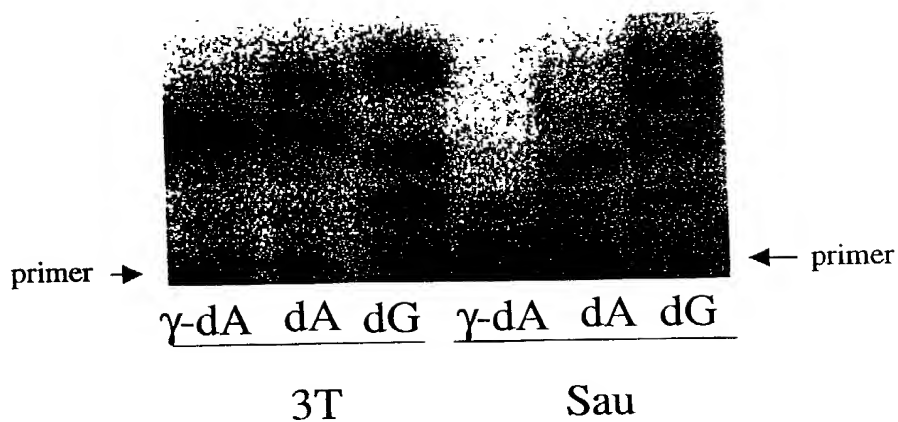


FIG. 10

13/14

Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT-3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
 BOT-Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Enzyme:	None	T7	T7	Seq	Seq	T7				Sequenase				Taq			
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Template:	-	+	-	+	BOT-3T				Sau		BOT-3T		Sau		BOT-3T		
Nucleotide:	-	dA	γ dA	dA	γ dA	dG	dA	(spill)	γ dA	dG	dA	γ dAdG	dA	γ dAdG	dA	γ dA	dA

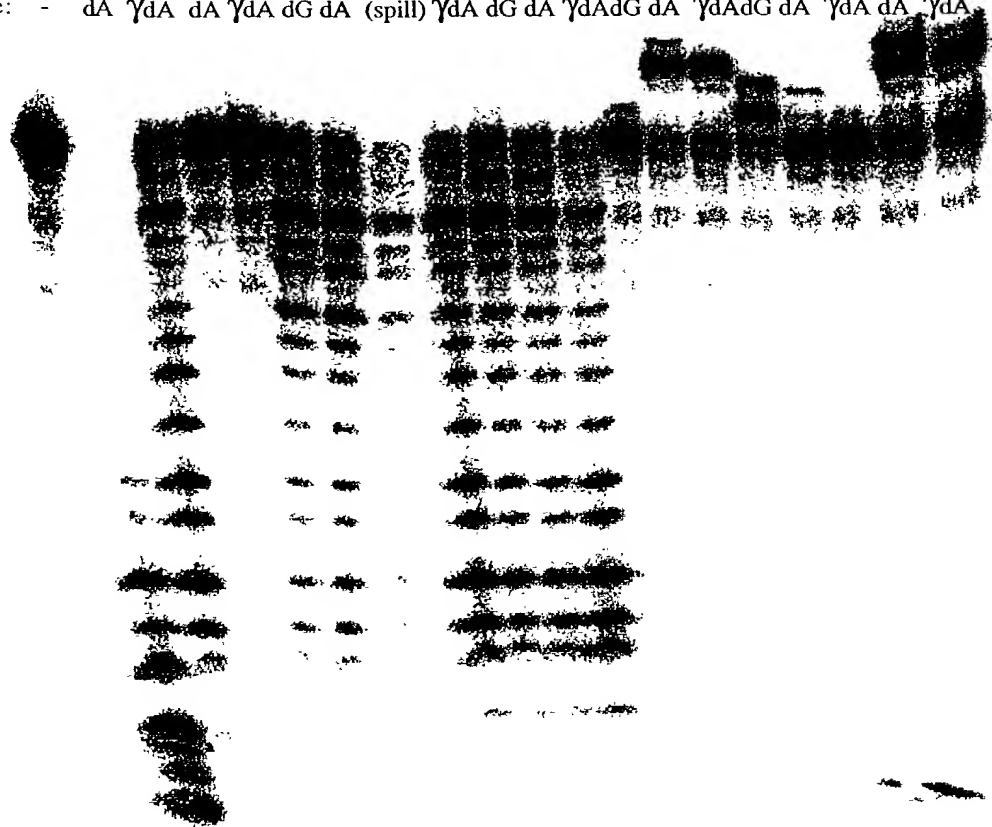
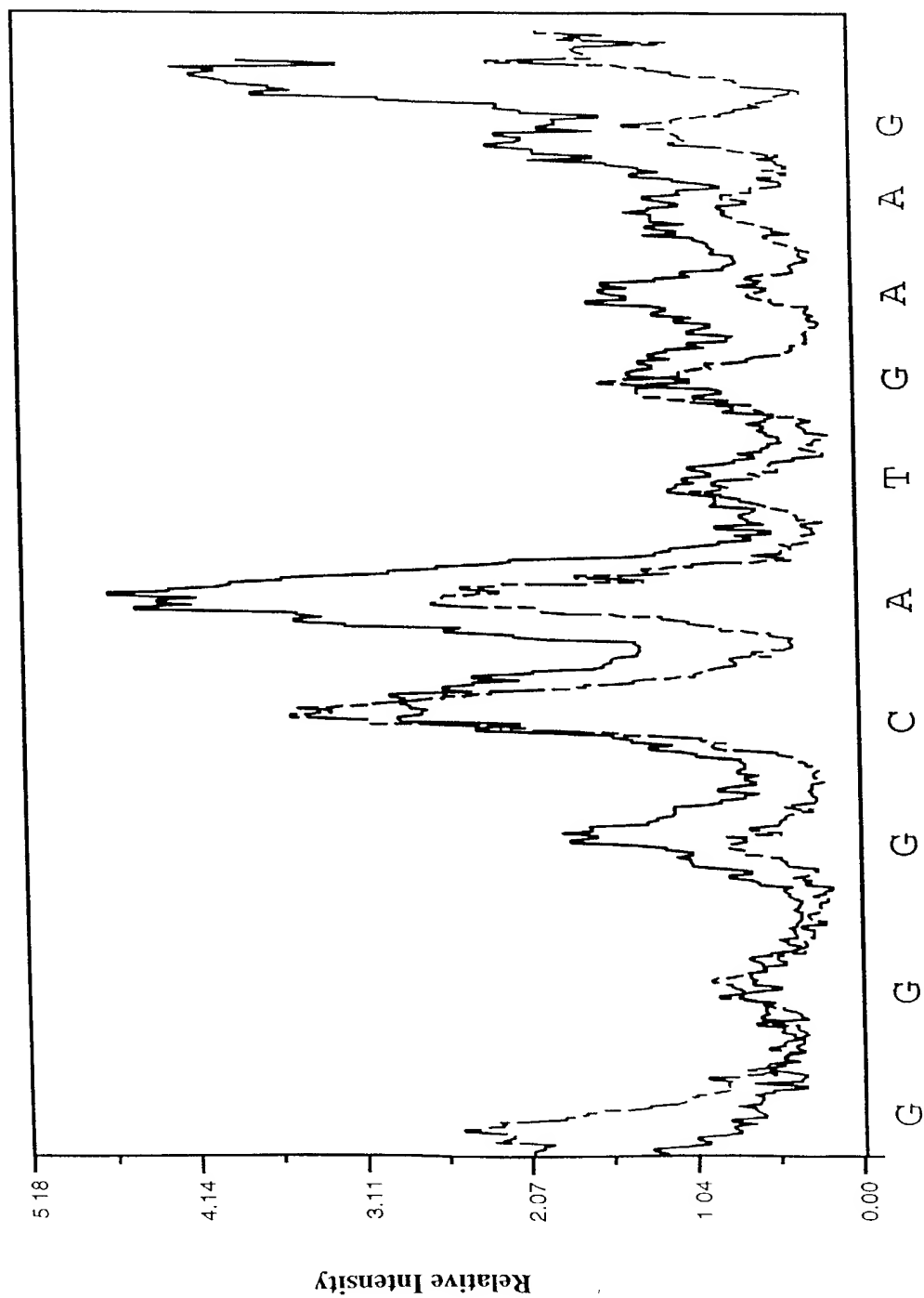


FIG. 11



Signal Intensity and Reaction Kinetics Provide Information Concerning Base Identity.

FIG. 12